











[illegible]

## RESULT 7

US-10-410-764-102

Sequence 102, Application US/10410764  
Publication No. US200400056641

APPLICANT: Millennium Pharmaceuticals, Inc.  
APPLICANT: Millennium Pharmaceuticals, Inc.  
APPLICANT: Meyers, Kyle E.  
APPLICANT: MacBeth, Ryan J.  
APPLICANT: Kucharsky, Amy A.  
APPLICANT: Kucharsky, Amy A.  
APPLICANT: Reich, Nadine S.  
APPLICANT: Welch, Nadine S.  
APPLICANT: Olandt, Peter J.  
APPLICANT: Fassi, Omar H.  
APPLICANT: Fassi, Omar H.  
APPLICANT: Carroll, Joseph M.  
APPLICANT: Carroll, Joseph M.

TITLE OF INVENTION: 26139, 33530, 33549, 47148, 50226, 52235, 52236, 52237, 52238, 52239, 52240, 52241, 52242, 52243, 52244, 52245, 52246, 52247, 52248, 52249, 52250, 52251, 52252, 52253, 52254, 52255, 52256, 52257, 52258, 52259, 52260, 52261, 52262, 52263, 52264, 52265, 52266, 52267, 52268, 52269, 52270, 52271, 52272, 52273, 52274, 52275, 52276, 52277, 52278, 52279, 52280, 52281, 52282, 52283, 52284, 52285, 52286, 52287, 52288, 52289, 52290, 52291, 52292, 52293, 52294, 52295, 52296, 52297, 52298, 52299, 52300, 52301, 52302, 52303, 52304, 52305, 52306, 52307, 52308, 52309, 52310, 52311, 52312, 52313, 52314, 52315, 52316, 52317, 52318, 52319, 52320, 52321, 52322, 52323, 52324, 52325, 52326, 52327, 52328, 52329, 52330, 52331, 52332, 52333, 52334, 52335, 52336, 52337, 52338, 52339, 52340, 52341, 52342, 52343, 52344, 52345, 52346, 52347, 52348, 52349, 52350, 52351, 52352, 52353, 52354, 52355, 52356, 52357, 52358, 52359, 52360, 52361, 52362, 52363, 52364, 52365, 52366, 52367, 52368, 52369, 52370, 52371, 52372, 52373, 52374, 52375, 52376, 52377, 52378, 52379, 52380, 52381, 52382, 52383, 52384, 52385, 52386, 52387, 52388, 52389, 52390, 52391, 52392, 52393, 52394, 52395, 52396, 52397, 52398, 52399, 52400, 52401, 52402, 52403, 52404, 52405, 52406, 52407, 52408, 52409, 52410, 52411, 52412, 52413, 52414, 52415, 52416, 52417, 52418, 52419, 52420, 52421, 52422, 52423, 52424, 52425, 52426, 52427, 52428, 52429, 52430, 52431, 52432, 52433, 52434, 52435, 52436, 52437, 52438, 52439, 52440, 52441, 52442, 52443, 52444, 52445, 52446, 52447, 52448, 52449, 52450, 52451, 52452, 52453, 52454, 52455, 52456, 52457, 52458, 52459, 52460, 52461, 52462, 52463, 52464, 52465, 52466, 52467, 52468, 52469, 52470, 52471, 52472, 52473, 52474, 52475, 52476, 52477, 52478, 52479, 52480, 52481, 52482, 52483, 52484, 52485, 52486, 52487, 52488, 52489, 52490, 52491, 52492, 52493, 52494, 52495, 52496, 52497, 52498, 52499, 52500, 52501, 52502, 52503, 52504, 52505, 52506, 52507, 52508, 52509, 52510, 52511, 52512, 52513, 52514, 52515, 52516, 52517, 52518, 52519, 52520, 52521, 52522, 52523, 52524, 52525, 52526, 52527, 52528, 52529, 52530, 52531, 52532, 52533, 52534, 52535, 52536, 52537, 52538, 52539, 52540, 52541, 52542, 52543, 52544, 52545, 52546, 52547, 52548, 52549, 52550, 52551, 52552, 52553, 52554, 52555, 52556, 52557, 52558, 52559, 52560, 52561, 52562, 52563, 52564, 52565, 52566, 52567, 52568, 52569, 52570, 52571, 52572, 52573, 52574, 52575, 52576, 52577, 52578, 52579, 52580, 52581, 52582, 52583, 52584, 52585, 52586, 52587, 52588, 52589, 52590, 52591, 52592, 52593, 52594, 52595, 52596, 52597, 52598, 52599, 52600, 52601, 52602, 52603, 52604, 52605, 52606, 52607, 52608, 52609, 52610, 52611, 52612, 52613, 52614, 52615, 52616, 52617, 52618, 52619, 52620, 52621, 52622, 52623, 52624, 52625, 52626, 52627, 52628, 52629, 52630, 52631, 52632, 52633, 52634, 52635, 52636, 52637, 52638, 52639, 52640, 52641, 52642, 52643, 52644, 52645, 52646, 52647, 52648, 52649, 52650, 52651, 52652, 52653, 52654, 52655, 52656, 52657, 52658, 52659, 52660, 52661, 52662, 52663, 52664, 52665, 52666, 52667, 52668, 52669, 52670, 52671, 52672, 52673, 52674, 52675, 52676, 52677, 52678, 52679, 52680, 52681, 52682, 52683, 52684, 52685, 52686, 52687, 52688, 52689, 52690, 52691, 52692, 52693, 52694, 52695, 52696, 52697, 52698, 52699, 52700, 52701, 52702, 52703, 52704, 52705, 52706, 52707, 52708, 52709, 52710, 52711, 52712, 52713, 52714, 52715, 52716, 52717, 52718, 52719, 52720, 52721, 52722, 52723, 52724, 52725, 52726, 52727, 52728, 52729, 52730, 52731, 52732, 52733, 52734, 52735, 52736, 52737, 52738, 52739, 52740, 52741, 52742, 52743, 52744, 52745, 52746, 52747, 52748, 52749, 52750, 52751, 52752, 52753, 52754, 52755, 52756, 52757, 52758, 52759, 52760, 52761, 52762, 52763, 52764, 52765, 52766, 52767, 52768, 52769, 52770, 52771, 52772, 52773, 52774, 52775, 52776, 52777, 52778, 52779, 52780, 52781, 527



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FEATURES:
  NAME/REF: CDS
  LOCATION: (49)...(1239)
  US-10-410-764-100

Query Match
  Best Local Similarity 95.1%; Score 1161.8; DB 16; Length 1281;
  Matches 1171; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Oy 1 ATGGAGACCAACATTCAGAAAACCAACGCGTGTATGATGAATATGAGATGATCTT 60
Db 49 ATGGAGACCAACATTCAGAAAACCAACGCGTGTATGATGAATATGAGATGATCTT 108
Oy 61 GACCACTTGAATTTTGGAGCACTTGGGAAGAGCGTGTGGAGAGTCTGATATTA 120
Db 109 GACCACTTGAATTTTGGAGCACTTGGGAAGAGCGTGTGGAGAGTCTGATATTA 168
Oy 121 CAGAGATGATACCAAGAGATGACCAATGAGATGATGATGATGATGATGATGATG 180
Db 159 CAGAGATGATACCAAGAGATGACCAATGAGATGATGATGATGATGATGATGATG 228
Oy 181 GAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
Db 229 GAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 288
Oy 241 CACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 300
Db 289 CACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 348
Oy 301 GACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 349 GACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 408
Oy 361 GAAACCAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Db 409 GAAACCAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 468
Oy 421 CGATCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 480
Db 469 CGATCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 528
Oy 481 CAGTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 540
Db 529 CAGTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 588
Oy 541 GGTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 600
Db 589 GGTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 648
Oy 601 TCTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 660
Db 649 TCTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 708
Oy 661 AGAGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 720
Db 709 AGAGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 768
Oy 721 ACTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 780
Db 769 ACTGCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 828
Oy 781 CTCGACATTTCTGATTTTCTGATGATGATGATGATGATGATGATGATGATG 840
Db 829 CTCGACATTTCTGATTTTCTGATGATGATGATGATGATGATGATGATGATG 888
Oy 841 ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 900
Db 889 ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 948
Oy 901 AATAAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 960
Db 949 AATAAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 1008

RESULT 8
  Sequence 1, Application US/09801876B
  Patent No. US20000127693A1
  GENE: HSP70
  PLOC: PLOC: 18.1
  TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
  ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
  THEREOF
  FILE REFERENCE: CL001140
  CURRENT APPLICATION NUMBER: US/09/801,876B
  CURRENT FILING DATE: 2003-03-09
  INVENTOR: JAMES E. ALLEN
  SOFTWARE: PAM-S90 for Windows Version 4.0
  SEQ ID NO 1
  LENGTH: 485
  TYPE: DNA
  ORGANISM: Human
  US-09-801-876B-1

Query Match
  Best Local Similarity 94.8%; Score 1160.6; DB 9; Length 1485;
  Matches 1169; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Oy 1 ATGGAGACCAACATTCAGAAAACCAACGCGTGTATGATGAATGAGATGATCACTT 60
Db 61 ATGGAGACCAACATTCAGAAAACCAACGCGTGTATGATGAATGAGATGATCACTT 62
Oy 63 GACCACTTGAATTTTGGAGCACTTGGGAAGAGCGTGTGGAGAGTCTGATATTA 120
Db 63 GACCACTTGAATTTTGGAGCACTTGGGAAGAGCGTGTGGAGAGTCTGATATTA 122
Oy 131 CAGAGATGATACCAAGAGATGACCAATGAGATGATGATGATGATGATGATGATG 180
Db 133 CAGAGATGATACCAAGAGATGACCAATGAGATGATGATGATGATGATGATGATG 182
Oy 181 GAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
Db 183 GAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 242
Oy 241 CACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 300
Db 243 CACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 302
Oy 301 GACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 360
Db 303 GACTCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 362
Oy 361 GAAACCAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Db 363 GAAACCAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 422
Oy 421 CGATCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 480
Db 423 CGATCTGCTGATTTTCTGATGATGATGATGATGATGATGATGATGATGATG 482

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Search completed: May 28, 2004, 09:36:31  
Job time : 593 secs









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RESULT 4
US-10-601-8765-1
/ Sequence 1, Application US/09801876B
/ Patent No.: 6952155
/ GENERAL INFORMATION:
/ TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
/ TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
/ TITLE OF INVENTION: THEREOF
/ CURRENT APPLICATION NUMBER: US/09/801,876B
/ CURRENT FILING DATE: 2001-03-09
/ NUMBER OF SEQ ID NOS: 8
/ SOFTWARE: FastSeq for Mowse Version 4.0
/ SEQ ID NO 1
/ LENGTH: 1485
/ ORGANISM: Human
/ US-10-601-8765-1
/ Query Match
/ Seq. Local Similarity 94.8%; Pred. No. 0;
/ Matches 1169; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
/ 1 ATGGGCGGCAACCACTTCAGAAAGAGATGCGATGAGTATGAGATTAAGATGATGCTCACTTT 60
/ 3 ATGGGCGGCAACCACTTCAGAAAGAGATGCGATGAGTATGAGATTAAGATGATGCTCACTTT 60
/ 61 GACCACTTCGAAATTTGGCGAGCTTGGGAGAGACAGCTTTTGGAGAGTGAATGATGCTGTA 120
/ 63 GACCACTTCGAAATTTGGCGAGCTTGGGAGAGACAGCTTTTGGAGAGTGAATGATGCTGTA 122
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/ 123 CAGAGAGATGATACGAGAGATGATGCGATGAGTATGAGATTAAGATGATGCTCACTTT 182
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/ 183 GAGCCCAATGATGAGAGATGCTTCAGAGATTCGATGATGATGATGATGATGATGATGATG 242
/ 241 GCTTCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
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/ 301 GACCTTCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
/ 303 GACCTTCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 362
/ 361 GAAACATGAGCTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
/ 363 GAAACATGAGCTTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 422
/ 421 GATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
/ 423 GATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 482
/ 481 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
/ 483 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 542
/ 541 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
/ 543 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 602
/ 601 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
/ 603 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 662
/ 661 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
/ 663 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 722

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Oy 721 ACTGCTGTAACCTACCTCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 780
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Oy 761 CTGAGCACTATTCAGAGCAACGATTTTCAGTATTCAGTATTCAGTATTCAGTATTCAGTATTCAG 840
Db 763 CTGAGCACTATTCAGAGCAACGATTTTCAGTATTCAGTATTCAGTATTCAGTATTCAGTATTCAG 842
Oy 841 ATGAGTATTAACCTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
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Oy 901 ATTAAGAGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
Db 903 ATTAAGAGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 962
Oy 961 ACTGAGCACTATTCAGAGCAACGATTTTCAGTATTCAGTATTCAGTATTCAGTATTCAG 1020
Db 963 ACTGAGCACTATTCAGAGCAACGATTTTCAGTATTCAGTATTCAGTATTCAGTATTCAG 1022
Oy 1021 GATTCCTTCAGATATTCCTTCAGAGCACTTCCTTCAGAGCACTTCCTTCAGAGCACTTCCTTC 1080
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Oy 1081 ATTTTCAGAGCACTTCCTTCAGAGCACTTCCTTCAGAGCACTTCCTTCAGAGCACTTCCTTC 1140
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Oy 1141 GACCAACCAAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1180
Db 1143 GACCAACCAAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1185
RESULT 5
US-10-254-869-1
/ Sequence 1, Application US/10254869
/ Patent No.: 6952155
/ GENERAL INFORMATION:
/ APPLICANT: YE, Jane et al
/ TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
/ TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
/ TITLE OF INVENTION: THEREOF
/ FILE REFERENCE: CLO1160DIV US/10/254,869
/ CURRENT FILING DATE: 2002-09-26
/ NUMBER OF SEQ ID NOS: 8
/ SOFTWARE: FastSeq for Mowse Version 4.0
/ SEQ ID NO 1
/ LENGTH: 1485
/ ORGANISM: Human
/ US-10-254-869-1
/ Query Match
/ Seq. Local Similarity 94.8%; Score 1160.6; DB 4; Length 1485;
/ Seq. Local Similarity 96.8%; Pred. No. 0;
/ Matches 1169; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
/ 1 ATGGGCGGCAACCACTTCAGAAAGAGATGCGATGAGTATGAGATTAAGATGATGCTCACTTT 60
/ 3 ATGGGCGGCAACCACTTCAGAAAGAGATGCGATGAGTATGAGATTAAGATGATGCTCACTTT 62
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/ 423 GATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 482
/ 481 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
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/ 541 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
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/ 601 GATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
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US-09-419-607-1
; Sequence 1, Application US/0981967
; Patent No. 686176
; APPLICANT: BRANLEY, Ellen et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C0601078
; CURRENT APPLICATION NUMBER: US/09/819,607
; INVENTOR: BRANLEY, Ellen et al.
; NUMBER OF SEQ ID NOS: 2001-03-29
; SOFTWARE: PileSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1864
; TYPE: DNA
; ORGANISM: Human
; RESULT 11
; Query Match
; Query Match: 38.4%; Score 470; DB 4; Length 1864;
; Percent Local Similarity 66.1%; Pred. No. 4.2e-136;
; Matches 715; Conservative 0; Mismatches 355; Indels 12; Gaps 2;
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; 89 AGCGAGAGAGAGAGTCACTTTGACACTTATGATATTTGAGAGTGAAGAGAGCA 148
; 98 GTTTTGAGAGTTCCTGATATGACAGAGATGATACAGAGATGATGACATAGT 157
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; 158 CATGATTAATGAAGATGCTGAGAGAGATGATGAGAGATGCTTCAAGAGATC 217
; 209 AATGACAGAGAGAGAGTCACTTTGACACTTATGATATTTGAGAGTGAAGAGCA 268
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; 629 ATCTTTTGTTCAGAGAGAGAGTTCCTTCTGATATTTGATATTTGATATTTGATATTT 688
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; 692 CAGAGAGATGATGAGAGAGTTCCTTCTGATATTTGATATTTGATATTTGATATTT 751
; 749 TGACAGATGATGAGAGAGTTCCTTCTGATATTTGATATTTGATATTTGATATTT 808
; 752 AGGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 811

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 362 IFNFKKNDKPNFNSQNLALFETQDVTYBZQWQVGLSTFPTQVTS 407  
 363 IFNFKKNDKPNFNSQNLALFETQDVTYBZQWQVGLSTFPTQVTS 407

Sequence 11, Application US/0981683  
 GENERAL INFORMATION:  
 APPLICANT: Hu, Yi  
 APPLICANT: Nepomitchy, Boris  
 APPLICANT: Donohy, Gregory  
 APPLICANT: Scoville, John  
 APPLICANT: Miller, No. 1  
 FILE REFERENCE: LEX-0167-USA  
 CURRENT APPLICATION NUMBER: US/09/841,683  
 PRIOR FILING DATE: 2000-04-22  
 PRIOR APPLICATION NUMBER: US 60/139,499  
 PRIOR FILING DATE: 2000-04-25  
 PRIOR APPLICATION NUMBER: US 60/201,227  
 NUMBER OF SEQ ID NOS: 12  
 SOFTWARE: SeqSIS for Windows Version 4.0  
 SEQ ID NO 11  
 TYPE: PRT  
 ORGANISM: homo sapiens  
 LENGTH: 841-683-11

Query Match  
 Best Local Similarity 95.8%; Score 2060; DB 9; Length 396;  
 Match 389; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
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 122 ETVALFICELWALDYLQNCRIHEDKQONLIDRGHVLDTFTIAKLPRETQTM 180  
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 241 TVVTTFSANQSVLSKLLKLPNPFQSLQVWFFPMQINWQVQKLLFPT 300  
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301 NKGSLNDCTFTLEMLTSLSPFARKKMLANKKMKCSSQCLLQKHLQVQFET 360  
 302 NKGSLNDCTFTLEMLTSLSPFARKKMLANKKMKCSSQCLLQKHLQVQFET 360  
 361 IFNFKKNDKPNFNSQNLALFETQDVTYBZQWQVGLSTFPTQVTS 407  
 362 IFNFKKNDKPNFNSQNLALFETQDVTYBZQWQVGLSTFPTQVTS 407  
 363 IFNFKKNDKPNFNSQNLALFETQDVTYBZQWQVGLSTFPTQVTS 407

US-10-362-892-20  
 Application US/10362892  
 Sequence 20, Application US/10362892  
 GENERAL INFORMATION:  
 APPLICANT: INCTE GENOMICS, INC.; BANDMAN, Olga  
 APPLICANT: GANESH, Jaisri S.; KANA, Rainer K.  
 APPLICANT: RAHALIA, Anirudh J.; YAO, Y. J.  
 APPLICANT: AMERESA, R.; GURURAJAN, Rajagopal  
 APPLICANT: DING, Li; PATTERSON, Chandra S.  
 APPLICANT: TRIPOULEY, Catherine K.; THORNTON, Michael B.  
 APPLICANT: ELAIOTT, Vicki S.; LU, Yan  
 APPLICANT: TAN, Craig R.; ZHANG, YONG, Janice K.  
 APPLICANT: BURRILL, John D.; MARCUS, Gregory A.  
 APPLICANT: ZINGLER, Kurt A.; LU, Dzung Aima M.  
 APPLICANT: MARGENTHALER, JAMES, Jr.; Weylmann  
 APPLICANT: WARREN, Bridget A.; KEARNEY  
 APPLICANT: POLICKY, Jennifer L.; THANGAVELU, Kavitha  
 APPLICANT: BURFORD, Neil  
 APPLICANT: INCTE GENOMICS, INC.  
 FILE REFERENCE: PF-0208 USN  
 CURRENT APPLICATION NUMBER: US/10/362,892  
 CURRENT FILING DATE: 2003-02-25  
 PRIOR FILING DATE: 2003-02-25/US03/27219  
 PRIOR FILING DATE: 2003-08-31  
 PRIOR APPLICATION NUMBER: US 60/229,873  
 PRIOR FILING DATE: 2003-08-31  
 PRIOR APPLICATION NUMBER: US 60/231,357  
 PRIOR FILING DATE: 2003-09-08  
 PRIOR APPLICATION NUMBER: US 60/232,654  
 PRIOR FILING DATE: 2003-09-08  
 PRIOR APPLICATION NUMBER: US 60/234,902  
 PRIOR FILING DATE: 2003-09-22  
 PRIOR APPLICATION NUMBER: US 60/236,499  
 PRIOR FILING DATE: 2003-09-22  
 PRIOR APPLICATION NUMBER: US 60/238,389  
 PRIOR FILING DATE: 2003-10-06  
 PRIOR APPLICATION NUMBER: US 60/240,542  
 NUMBER OF SEQ ID NOS: 48  
 SOFTWARE: PBLU Program  
 ORGANISM: PBLU  
 LENGTH: 396  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 NAME/KEY: nisc feature  
 OTHER INFORMATION: Inctye ID No. US20040038881A1 7946584CD3  
 US-10-362-892-20

Query Match  
 Best Local Similarity 95.8%; Score 2060; DB 12; Length 396;  
 Match 389; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
 1 WANTSHKFFVDEWVDFHFLRAIGKSGFKCI VQNVNTKMTAKMTNQCY 60  
 1 KAMTSHKFFVDEWVDFHFLRAIGKSGFKCI VQNVNTKMTAKMTNQCY 60  
 61 ERMENVVFEQLQVQGLBPHVLTWYSPQBEEMWVOLLGDLRYLQNVHRE 120  
 61 ERMENVVFEQLQVQGLBPHVLTWYSPQBEEMWVOLLGDLRYLQNVHRE 120  
 121 ETVALFICELWALDYLQNCRIHEDKQONLIDRGHVLDTFTIAKLPRETQTM 180  
 122 ETVALFICELWALDYLQNCRIHEDKQONLIDRGHVLDTFTIAKLPRETQTM 180  
 181 AKTPTWAPBSSKSGAGYFAVNWISGLVATVALLGRBPHVLSKSIWHFPT 240  
 182 AKTPTWAPBSSKSGAGYFAVNWISGLVATVALLGRBPHVLSKSIWHFPT 240  
 241 TVVTTFSANQSVLSKLLKLPNPFQSLQVWFFPMQINWQVQKLLFPT 300  
 242 TVVTTFSANQSVLSKLLKLPNPFQSLQVWFFPMQINWQVQKLLFPT 300





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Db 301 NGRKLVNTPFELMLSGFVHLEKQELAKRDEKWKCKSGCTCLLQHLQVQKEFI 360
Qy 361 IFNRKVNTPFNGKPLALRQVQVQVQVQ 392
Db 361 IFNRKVNTPFNGKPLALRQVQVQVQ 392
Qy 361 IFNRKVNTPFNGKPLALRQVQVQVQ 392

RESULT 8
US-10-657-442-2
; Sequence 2, Application US/1064742
; Score: 84.98; Pred. No. 5-4e-162; Length 396;
; Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
; ORGANISM: Homo sapiens
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; THEREOF
; FILE REFERENCE: CLO0160DVI II
; CURRENT FILING DATE: 2002-09-23
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Homo sapiens
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; THEREOF
; FILE REFERENCE: CLO0160DVI II
; CURRENT FILING DATE: 2002-09-23
; NUMBER OF SEQ ID NOS: 8

Query Match Similarity 95.2%; Score 2047; DB 12; Length 396;
Best Local Similarity 98.74; Pred. No. 5-4e-162;
Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
Qy 1 MGNSTRSPFVDEEDVNFHFIKALGSGFQVCIQVQDCTKANKYQVQ 60
Db 1 MGNSTRSPFVDEEDVNFHFIKALGSGFQVCIQVQDCTKANKYQVQ 60
Qy 61 KNNVNTVFELQIQMLERFPLNATSFQDEEMFVVLGLGLATHLQNVHFE 120
Db 61 KNNVNTVFELQIQMLERFPLNATSFQDEEMFVVLGLGLATHLQNVHFE 120
Qy 121 ETVVLFCFLNVALQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQ 180
Db 121 ETVVLFCFLNVALQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQ 180
Qy 181 AGTVPKAPFPMFSSKAGTSPFQVQVQVQVQVQVQVQVQVQVQVQ 240
Db 181 AGTVPKAPFPMFSSKAGTSPFQVQVQVQVQVQVQVQVQVQVQVQ 240
Qy 241 VVVVTSANGSVNVLKLLERFQVQVQVQVQVQVQVQVQVQVQVQ 300
Db 241 VVVVTSANGSVNVLKLLERFQVQVQVQVQVQVQVQVQVQVQVQ 300
Qy 301 NGRKLVNTPFELMLSGFVHLEKQELAKRDEKWKCKSGCTCLLQHLQ 360
Db 301 NGRKLVNTPFELMLSGFVHLEKQELAKRDEKWKCKSGCTCLLQHLQ 360
Qy 361 IFNRKVNTPFNGKPLALRQVQVQVQVQ 392
Db 361 IFNRKVNTPFNGKPLALRQVQVQVQVQ 392

RESULT 9
US-10-254-869-2
; Sequence 2, Application US/10254869
; Score: 84.98; Pred. No. 9.7e-144; Length 358;
; Matches 347; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; ORGANISM: Homo sapiens
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; THEREOF
; FILE REFERENCE: CLO0160DVI II
; CURRENT FILING DATE: 2002-09-23
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Homo sapiens
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; THEREOF
; FILE REFERENCE: CLO0160DVI II
; CURRENT FILING DATE: 2002-09-23
; NUMBER OF SEQ ID NOS: 8

Query Match Similarity 84.98; Score 1827; DB 15; Length 358;
Best Local Similarity 100.04; Pred. No. 9.7e-144;
Matches 347; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGNSTRSPFVDEEDVNFHFIKALGSGFQVCIQVQDCTKANKYQVQ 60
Db 1 MGNSTRSPFVDEEDVNFHFIKALGSGFQVCIQVQDCTKANKYQVQ 60
Qy 61 KNNVNTVFELQIQMLERFPLNATSFQDEEMFVVLGLGLATHLQNVHFE 120
Db 61 KNNVNTVFELQIQMLERFPLNATSFQDEEMFVVLGLGLATHLQNVHFE 120
Qy 121 ETVVLFCFLNVALQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQ 180
Db 121 ETVVLFCFLNVALQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQ 180

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[illegible]

Query Match	66.58;	Score	1430.51;	DB	14;	Length	404;
Best Local Similarity	68.18;	Pred.	No. 1.1e-10;				
Matches	280;	Conservative	43;	Mismatches	70;	Indels	17
							Gaps
							5;
1	NGAATGATGPPENEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
2	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
3	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
4	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
5	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
6	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
7	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
8	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
9	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
10	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
11	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
12	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
13	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
14	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
15	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
16	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
17	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
18	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
19	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
20	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
21	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
22	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
23	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
24	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
25	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
26	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
27	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
28	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
29	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
30	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
31	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
32	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
33	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
34	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
35	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
36	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
37	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
38	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
39	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
40	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
41	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
42	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
43	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
44	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
45	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
46	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
47	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
48	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
49	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77	INDDEL	77	INDDEL	77
50	MGAGGAKHPPEDVNDPFLILUA	GGGSGGKGC	77				

RESULT 15  
 JS-09-801-8768-5  
 Sequence 5, Application US/0980.8768  
 Patent No. 2002/027603A1  
 GENERAL INFORMATION  
 APPLICANT: YE, JANE et al  
 TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID SEQUENCES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF  
 TITLE OF INVENTION: THEREOF  
 FILE REFERENCE: CLO01160  
 CURRENT APPLICATION NUMBER: US/09/801.8768  
 PRIORITY APPLICATION NUMBER: US/01-03-05  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 403  
 SEQ ID NO 404

LENGTH: 403

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301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Db 300 NAGNLGNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Qy 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407  
 Db 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407

RESULT 2  
 ; Sequence 11, Application US/09841683  
 ; Patent No. 6617147  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Nipponmichi, Boris  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; FILE OF INVENTION: THEREOF  
 ; CURRENT FILING DATE: 2001-04-24  
 ; PRIOR APPLICATION NUMBER: US 60/199,499  
 ; PRIOR APPLICATION NUMBER: US 60/201,227  
 ; PRIOR FILING DATE: 2000-05-01  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens

Query Match 95.94; Score 2060; DB 4; Length 396;  
 Local Similarity 99.24; Pred. No. 5.9e-189;  
 Matches 389; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Db 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Qy 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Db 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Qy 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Db 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Qy 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Db 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Qy 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Db 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Qy 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Db 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Qy 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407  
 Db 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407

RESULT 3  
 ; Sequence 2, Application US/09801875B  
 ; Patent No. 6617147  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Nipponmichi, Boris  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; FILE OF INVENTION: THEREOF  
 ; CURRENT FILING DATE: 2001-04-24  
 ; PRIOR APPLICATION NUMBER: US 60/199,499  
 ; PRIOR APPLICATION NUMBER: US 60/201,227  
 ; PRIOR FILING DATE: 2000-05-01  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens

Query Match 95.94; Score 2060; DB 4; Length 396;  
 Local Similarity 99.24; Pred. No. 5.9e-189;  
 Matches 389; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Db 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Qy 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Db 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Qy 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Db 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Qy 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Db 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Qy 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Db 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Qy 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Db 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Qy 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407  
 Db 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407

Patent No. 649015  
 ; GENERAL INFORMATION:  
 ; APPLICANT: YE, Jane et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; FILE OF INVENTION: THEREOF  
 ; CURRENT FILING DATE: 2001-03-09  
 ; PRIOR APPLICATION NUMBER: US/09/801,875B  
 ; PRIOR APPLICATION NUMBER: US/09/801,875B  
 ; PRIOR FILING DATE: 2000-03-09  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-801-875B-2

Query Match 95.24; Score 2047; DB 4; Length 396;  
 Local Similarity 98.74; Pred. No. 1e-187;  
 Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Db 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Qy 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Db 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Qy 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Db 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Qy 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Db 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Qy 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Db 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Qy 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Db 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Qy 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407  
 Db 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407

RESULT 4  
 US-10-254-869-2  
 ; Application US/10254869  
 ; Patent No. 6533117  
 ; GENERAL INFORMATION:  
 ; APPLICANT: US 31  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; FILE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; TITLE OF INVENTION: THEREOF  
 ; CURRENT FILING DATE: 2002-09-25  
 ; CURRENT APPLICATION NUMBER: US/10/254,869  
 ; NUMBER OF SEQ ID NOS: 8  
 ; SEQ ID NO 2  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-10-254-869-2

Query Match 95.24; Score 2047; DB 4; Length 396;  
 Local Similarity 98.74; Pred. No. 1e-187;  
 Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Db 1 MANTSSKSPVFDENVNDFPHETLALGKSGKQVCTVQNDQNTAMKQVQKCY 60  
 Qy 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Db 61 ERMENFVFKELQMGHLEFFVNLVMSQDEDMVVLGLDQAYLQVQVKE 120  
 Qy 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Db 121 ERYVFLFCLEWALDYLNQRIHREKMPNILLDSGHVHITDFNLAFLPRTQTM 180  
 Qy 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Db 181 AKTTPVAFBMSRRKGGTGFSAVMSLQVATYLLGRSPHLSSTSSKSVIHTET 240  
 Qy 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Db 241 TTVTTSANSGMWSLKLLENFQRFQSLQVQFFPMDINDVAFQELLPQIP 300  
 Qy 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Db 301 NGRKLVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 360  
 Qy 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407  
 Db 361 INRKKNVNDPFELEMLSEKFLHKKRKLAKKDKKMSQCLLQHLHSQVQEFPI 407

RESULT 5  
 US-10-254-869-2  
 ; Application US/10254869  
 ; Patent No. 6533117  
 ; GENERAL INFORMATION:  
 ; APPLICANT: US 31  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; FILE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; TITLE OF INVENTION: THEREOF  
 ; CURRENT FILING DATE: 2002-09-25  
 ; CURRENT APPLICATION NUMBER: US/10/254,869  
 ; NUMBER OF SEQ ID NOS: 8  
 ; SEQ ID NO 2  
 ; LENGTH: 396  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-10-254-869-2

Query Match 95.24; Score 2047; DB 4; Length 396;  
 Local Similarity 98.74; Pred. No. 1e-187;  
 Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;



CURRENT APPLICATION NUMBER: US/09/801,878  
 CURRENT FILING DATE: 2001-03-09  
 NUMBER OF SEQ ID NOS: 8  
 SOFTWARE: FASTSEQ for Windows Version 4.0  
 SEQUENCE: 403  
 LENGTH: 403  
 TYPE: PRT Human  
 US-09-801-878-5

Query Match  
 Match Similarity: 66.24; Score 1421.5; DB 4; Length 403;  
 Matches 269; Conservative 40; Mismatches 60; Indels 3; Gaps 2;

1 MANTSSEKPPFNDNHWNPFFELALAKGKSPKVCYVQVQDQNTQNTAMKQYK 60  
 1 MGNNSHSPFVFNENWFNDFQALAKGKSPKVCYVQVQDQNTQNTAMKQYK 60  
 61 EKNVYVHVELOLMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 61 EREVENVNPFLQIMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 181 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 181 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 239 ETVVYVTSANQGVHVELKLELWPKPQSDQVQVQFPMIDINQAVFQEL 298  
 241 KVERVHTSTCKNOMVALLKGLLTQDPSVRSLSHDTQVPLADQNDVAFKAL 300  
 301 VANKRINCDPTFLEMLTLEKSPVHKKKKLAKNRSRGDTGSCPLNGHLQV 360  
 358 EPIINFEKLR 369  
 361 EPIINFEKLR 372

RESULT 8  
 US-09-845-869-5  
 Sequence 14; Application US/10254869  
 Patent No. 653117  
 GENERAL INFORMATION:  
 APPLICANT: Kapeller-Libermann, Rosana  
 TITLE OF INVENTION: ACID MOLUCLES ENCODING HUMAN KINASE PROTEINS, AND USES  
 TITLE OF INVENTION: THEREOF  
 CURRENT APPLICATION NUMBER: US/10/254,869  
 CURRENT FILING DATE: 2002-09-26  
 NUMBER OF SEQ ID NOS: 8  
 SOFTWARE: FASTSEQ for Windows Version 4.0  
 SEQUENCE: 403  
 LENGTH: 403  
 TYPE: PRT Human  
 US-10-254-869-5

Query Match  
 Match Similarity: 72.31; Pred. No. 5.4e-128;  
 Matches 269; Conservative 40; Mismatches 60; Indels 3; Gaps 2;

1 MANTSSEKPPFNDNHWNPFFELALAKGKSPKVCYVQVQDQNTQNTAMKQYK 60  
 1 MGNNSHSPFVFNENWFNDFQALAKGKSPKVCYVQVQDQNTQNTAMKQYK 60  
 61 EKNVYVHVELOLMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 61 EREVENVNPFLQIMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120

61 EREVENVNPFLQIMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 161 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 161 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 239 ETVVYVTSANQGVHVELKLELWPKPQSDQVQVQFPMIDINQAVFQEL 298  
 241 KVERVHTSTCKNOMVALLKGLLTQDPSVRSLSHDTQVPLADQNDVAFKAL 300  
 259 INPKRINCDPTFLEMLTLEKSPVHKKKKLAK--KKMKCKDSSUTCLLQHL 357  
 301 VANKRINCDPTFLEMLTLEKSPVHKKKKLAKNRSRGDTGSCPLNGHLQV 360  
 358 EPIINFEKLR 369  
 361 EPIINFEKLR 372

RESULT 9  
 US-09-799-875-14  
 Sequence 14; Application US/09799875  
 Patent No. 653117  
 GENERAL INFORMATION:  
 APPLICANT: Meyere, Rachel  
 TITLE OF INVENTION: Human Protein Kinases and Uses  
 TITLE OF INVENTION: THEREOF  
 CURRENT APPLICATION NUMBER: US/09/799,875  
 CURRENT FILING DATE: 2001-03-06  
 PRIOR APPLICATION NUMBER: 60/182,059  
 PRIOR FILING DATE: 2000-09-12  
 NUMBER OF SEQ ID NOS: 32  
 SOFTWARE: FASTSEQ for Windows Version 4.0  
 SEQUENCE: 419  
 LENGTH: 419  
 TYPE: PRT Human  
 US-09-799-875-14

Query Match  
 Match Similarity: 61.94; Score 1320.5; DB 4; Length 419;  
 Matches 253; Conservative 55; Mismatches 76; Indels 5; Gaps 3;

1 MANTSSEKPPFNDNHWNPFFELALAKGKSPKVCYVQVQDQNTQNTAMKQYK 60  
 5 MSAATSR--PVDQGVNFWHFOIATLQKSPKVCYVQVQDQNTQNTAMKQYK 63  
 61 EREVENVNPFLQIMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 61 EREVENVNPFLQIMQGLHVEFVNLVNSPQSDRMVPMVOLLGGLATLQAVHET 120  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 121 ETKVLFCELAWDLYQWQIIRHDMKPNILADRGHGHVHTPTNIAKLQVHT 180  
 161 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 161 AGTKPFWAPMFMFS--SKRGACVSPADVMNSGTVAYELAGRPHTIRSSSEI 238  
 239 ETVVYVTSANQGVHVELKLELWPKPQSDQVQVQFPMIDINQAVFQEL 298  
 241 KVERVHTSTCKNOMVALLKGLLTQDPSVRSLSHDTQVPLADQNDVAFKAL 300  
 259 INPKRINCDPTFLEMLTLEKSPVHKKKKLAKNRSRGDTGSCPLNGHLQV 356

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Db 304 VAMKRLACDPTFELMLAERFJAKKLLKLNKSRNSRDSQENDYLCQDIAQ 363
QY 357 KHTIFPKRKNVKNQKQKALECTD 385
Db 364 QNVFNREKLARSQULPREKLEPSSD 392

RESULT 10
US-09-801-876B-6
Sequence 6: Application US/0981876B
Patent No. 66615176
GENERAL INFORMATION:
APPLICANT: YE, Jane et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CLO01160
CURRENT FILING DATE: 2001-03-09
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FASTSEQ for Windows Version 4.0
LENGTH: 384
TYPE: PRT
ORGANISM: Mus Musculus
US-09-801-876B-6

Query Match 61.8%; Score 1328.5; DB 4; Length 384;
Best Local Similarity 64.5%; Pred. No. 6.3e-119;
Matches 251; Conservative 55; Mismatches 74; Indels 9; Gaps 3;

Db 6 SKRPFFDNDNFHFILALGSGSPKCVIVQDQKTMAMKNNKQKVENRY 65
QY 1 SARFVDFDNDNFHFILALGSGSPKCVIVQDQKTMAMKNNKQKVENRY 60
Db 66 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 125
QY 61 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
Db 126 FICLMAALDYLQNSLTHREKNTLILDLRHWITLNTLMLPRTLTMACTP 185
QY 121 FICLMAALDYLQNSLTHREKNTLILDLRHWITLNTLMLPRTLTMACTP 180
Db 186 VMAFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 243
QY 181 VMAFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 240
Db 244 TYSANSGKSLLEKLEPQSGFVMSVWYVALLQWPTDTHSNVLSVLEFSTV 303
QY 241 TYSANSGKSLLEKLEPQSGFVMSVWYVALLQWPTDTHSNVLSVLEFSTV 300
Db 304 RANCDPTFELMLAERFJAKKLLKLNKSRNSRDSQENDYLCQDIAQ 360
QY 303 RANCDPTFELMLAERFJAKKLLKLNKSRNSRDSQENDYLCQDIAQ 360
Db 361 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
QY 360 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
Db 361 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120

RESULT 11
US-10-254-869-6
Sequence 6: Application US/10254869
Patent No. 6653117
GENERAL INFORMATION:
APPLICANT: YE, Jane et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CLO01160
CURRENT FILING DATE: 2002-09-26
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FASTSEQ for Windows Version 4.0
LENGTH: 384
TYPE: PRT
ORGANISM: Mus Musculus
US-10-254-869-6

Query Match 60.2%; Score 1294.5; DB 4; Length 399;
Best Local Similarity 63.4%; Pred. No. 1.2e-115;
Matches 246; Conservative 54; Mismatches 80; Indels 9; Gaps 3;

Db 18 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 77
QY 1 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 70
Db 76 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 137
QY 75 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 130
Db 61 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 120

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NUMBER OF SEQ ID NOS: 8
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 384
TYPE: PRT
ORGANISM: Mus Musculus
US-10-254-869-6

Query Match 61.8%; Score 1328.5; DB 4; Length 384;
Best Local Similarity 64.5%; Pred. No. 6.3e-119;
Matches 251; Conservative 55; Mismatches 74; Indels 9; Gaps 3;

Db 5 SKRPFFDNDNFHFILALGSGSPKCVIVQDQKTMAMKNNKQKVENRY 65
QY 1 SARFVDFDNDNFHFILALGSGSPKCVIVQDQKTMAMKNNKQKVENRY 60
Db 66 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 125
QY 61 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
Db 126 FICLMAALDYLQNSLTHREKNTLILDLRHWITLNTLMLPRTLTMACTP 185
QY 121 FICLMAALDYLQNSLTHREKNTLILDLRHWITLNTLMLPRTLTMACTP 180
Db 186 VMAFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 243
QY 181 VMAFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 240
Db 244 TYSANSGKSLLEKLEPQSGFVMSVWYVALLQWPTDTHSNVLSVLEFSTV 303
QY 241 TYSANSGKSLLEKLEPQSGFVMSVWYVALLQWPTDTHSNVLSVLEFSTV 300
Db 304 RANCDPTFELMLAERFJAKKLLKLNKSRNSRDSQENDYLCQDIAQ 360
QY 303 RANCDPTFELMLAERFJAKKLLKLNKSRNSRDSQENDYLCQDIAQ 360
Db 361 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
QY 360 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120
Db 361 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 120

RESULT 12
US-09-819-607-4
Sequence 4: Application US/09819607
Patent No. 6666176
GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CLO01078
CURRENT APPLICATION NUMBER: US/09/819-607
CURRENT FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 499
TYPE: PRT
ORGANISM: Mus musculus
US-09-819-607-4

Query Match 60.2%; Score 1294.5; DB 4; Length 399;
Best Local Similarity 63.4%; Pred. No. 1.2e-115;
Matches 246; Conservative 54; Mismatches 80; Indels 9; Gaps 3;

Db 18 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 77
QY 1 NVNFKELNQSLHPTLVNLFHPOEHRMPVVLGLGSLRLHLQNVHFETVL 70
Db 76 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 137
QY 75 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 130
Db 61 LSRFVDFSS--RKGATGSPVMSGLVTVYELLGSPVHLSSTSGSEVFTVTV 120

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Qy 138 QNRIHEDKPCNTLLDREKWHVLTIDNIAIMPRETCUIMTWTGKPYKAPRHS--P 195
Db 131 RSQIHRDHWVDSYVILLOQHAHLDTPTATITIKDRAALAGAKPYAPRHSFPM 180
Qy 196 KMGTSFVAVMSGLVYAVELKGRPHVTSRSTSEIIVFVFSTVYVTSMSGRVS 255
Db 181 GATGTSFVAVMSGLVYAVELKGRPHVTSRSTSEIIVFVFSTVYVTSMSGRVS 240
Qy 256 LAKLLEKHPQKSCSDVNFVNDVINDVAVPQRIKGFIPKGRKLANCPYELLER 315
Db 241 LAKLLEKHPQKSCSDVNFVNDVINDVAVPQRIKGFIPKGRKLANCPYELLER 300
Qy 316 MLREKELHKKKELKELKELKELKELKELKELKELKELKELKELKELKEL 373
Db 301 MLREKELHKKKELKELKELKELKELKELKELKELKELKELKELKELKEL 355
Qy 374 RQNLALAKCTQPTVQMGOTGSLSTQTS 404
Db 356 RQNLALAKCTQPTVQMGOTGSLSTQTS 386
Qy 139
Db 131
Qy 139 Sequence 7, Application US/09841683
Db 131 Best Local Similarity 91.1%; Pred. No. 28-104;
GENERAL INFORMATION:
APPLICANT: Nepomichy, Boris
APPLICANT: Wang, Xiaoning
APPLICANT: Scoville, John
APPLICANT: Walke, D. Wade
CURRENT APPLICATION NUMBER: US/09/841,683
PRIOR FILING DATE: 2001-04-24
PRIOR PUBLICATION NUMBER: US 60/199,499
PRIOR FILING DATE: 2000-04-25
PRIOR PUBLICATION NUMBER: US 60/201,227
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 7
SEQ ID NO 8
TYPE: PRT
ORGANISM: homo sapiens
US-09-841-683-7
Query Match 54.6%; Score 1174; DB 4; Length 236;
Best Local Similarity 91.1%; Pred. No. 28-104;
Matches 224; Conservative 1; Mismatches 1; Indels 20; Gaps 1;
Qy 1 MANTSRKPPVPEENVDVHFELIARLQSGKQKVCIVQNDTKYAKTKYKQCY 60
Db 1 MEANYSKPPVPEENVDVHFELIARLQSGKQKVCIVQNDTKYAKTKYKQCY 60
Qy 61 ERENVYFKEIQGLGHPFLVNTVYSPQDEBMPYDLAGLGLVHLQVNHKS 120
Db 61 ERENVYFKEIQGLGHPFLVNTVYSPQDEBMPYDLAGLGLVHLQVNHKS 120
Qy 121 ETVKFLCELVALDYQKRIHREKMDPNTLLDREKWHVLTIDNIAIMPRETCU 180
Db 121 ETVKFLCELVALDYQKRIHREKMDPNTLLDREKWHVLTIDNIAIMPRETCU 180
Qy 181 AKTPTAMPSRSGKQKSFVQVMSLQVTLVATYELLER 220
Db 181 AKTPTAMPSRSGKQKSFVQVMSLQVTLVATYELLER 220
Qy 236
Db 236
Qy 236 Sequence 7, Application US/09841683
Db 236 Best Local Similarity 54.6%; Score 1174; DB 4; Length 236;
GENERAL INFORMATION:
APPLICANT: Nepomichy, Boris
APPLICANT: Wang, Xiaoning
APPLICANT: Scoville, John
APPLICANT: Walke, D. Wade
CURRENT APPLICATION NUMBER: US/09/841,683
PRIOR FILING DATE: 2001-04-24
PRIOR PUBLICATION NUMBER: US 60/199,499
PRIOR FILING DATE: 2000-04-25
PRIOR PUBLICATION NUMBER: US 60/201,227
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 7
SEQ ID NO 8
TYPE: PRT
ORGANISM: homo sapiens
US-09-841-683-7
Query Match 54.6%; Score 1174; DB 4; Length 236;
Best Local Similarity 91.1%; Pred. No. 28-104;
Matches 224; Conservative 1; Mismatches 1; Indels 20; Gaps 1;
Qy 1 MANTSRKPPVPEENVDVHFELIARLQSGKQKVCIVQNDTKYAKTKYKQCY 60
Db 1 MEANYSKPPVPEENVDVHFELIARLQSGKQKVCIVQNDTKYAKTKYKQCY 60
Qy 61 ERENVYFKEIQGLGHPFLVNTVYSPQDEBMPYDLAGLGLVHLQVNHKS 120
Db 61 ERENVYFKEIQGLGHPFLVNTVYSPQDEBMPYDLAGLGLVHLQVNHKS 120
Qy 121 ETVKFLCELVALDYQKRIHREKMDPNTLLDREKWHVLTIDNIAIMPRETCU 180
Db 121 ETVKFLCELVALDYQKRIHREKMDPNTLLDREKWHVLTIDNIAIMPRETCU 180
Qy 181 AKTPTAMPSRSGKQKSFVQVMSLQVTLVATYELLER 220
Db 181 AKTPTAMPSRSGKQKSFVQVMSLQVTLVATYELLER 220
Qy 246
Db 246
Qy 246 Sequence 7, Application US/09841683
Db 246 Best Local Similarity 53.1%; Score 1142; DB 4; Length 369;
GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen et al
APPLICANT: BEASLEY, Ellen et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID SEQUENCES, AND METHODS OF USING SAME
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID SEQUENCES, AND METHODS OF USING SAME
FILE REFERENCE: C1001078
CURRENT APPLICATION NUMBER: US/09/819,607
PRIOR FILING DATE: 2001-03-29
PRIOR PUBLICATION NUMBER: US 60/201,227
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 2
SEQ ID NO 3
TYPE: PRT
ORGANISM: Human
US-09-819-607-2
Query Match 53.1%; Score 1142; DB 4; Length 369;
Best Local Similarity 63.2%; Pred. No. 4-36-101;
Matches 216; Conservative 50; Mismatches 72; Indels 4; Gaps 2;
Qy 48 WYAKYKAKCKYVERNEVNFKEIQGLGHPFLVNTVYSPQDEBMPYDLAGLGL 107

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[illegible][illegible]







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STRAINE-972  
RC STRAINE-218440; Pubmed:1189560;  
RC Wood W., Cellian R., Rajendran A., Lyons M., Yone B., Stewart A.,  
BROOKS J., Kishimoto A., Saito T., Sakuma D., Romano C.  
BROOKS J., Brown D., Brown S., Chillingworth T., Churcher C.M.,  
GALLIES S., Connor R., Cronin A., Davis P., Fildes T., Fraser A.,  
Ritter S., Goble A., Haslin N., Harris D., Hilda-go S., Hodgson G.,  
Kane J., Karpman D., Keeney J., Kellum J., Kettlewell E.,  
MANNING P., Meule S., Mongellier K., Heather S., McDonald S., Muean J.,  
JONES P., Moule L., Murphy L., Niblett D., Odell C.,  
Owen C., O'Neill S., Pearson D., Quail M.A., Robinson-Tatch E.,  
SKELTON V., Simmonds W., Squares R., Stevens K.,  
Taylor K., Taylor K.G., Tlvey A., Walsh S.V., Warren T., Whitchard S.,  
Wheatland U., Volksgart G., Watt R., Robben J.G., Glynnoparis R., Jones S.,  
GABLER C., Fuchs W., Schmitt C., Kaiser F., Mosel D., Hilbert H.,  
BRYNEM K., Lauger I., Beck A., Lehnerch H., Reinhardt R., Pohl T.M.,  
EGER P., Zimmermann W., Medler H., Hambrecht R., Purcell R.,  
GAFFEAU A., Cadieux S., Dreano S., Gloux S., Leclaire M., Mettier S.

[illegible]

DR PIR; S55694; S55694.  
DR HSP; P05132; ICTP.  
DR GeneDB\_SPombe; SPAC1B9.02c; -.  
DR InterPro; IPR000008; C2.

DR InterPro: IPR008973; C2 CaLB.  
DR InterPro: IPR000961; pkinase\_C.  
DR InterPro: IPR000719; prot\_kinase.

















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Search completed: May 26, 2004, 20:18:50  
Job time : 19 secs



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DB 378 SLKPRIVDVSQVGLLILNWKYKTKKHGQFQFVGLLGGSTLQYVQVQKQCTGLY 137  
 QY 50 AMYKSKQYKVEENVEKELQIM--QLEHPPVLAIVTSFOEDENVEKVLGAG 106  
 DB 438 ANKAKKRYVTHNRIHATGRENLIYVTSASSQPTVGLRQFQITLIVLVWSG 497  
 QY 107 DLFTLQVNVHGETVYKPLICELVVALQYONQRIHDKMKNPILIDHGHVITDN 166  
 DB 498 ELKAPKQGESEFDEGAFATFANVAVNHHNDLVYMLKSENLIDANLALDNG 557  
 QY 167 IA-AMUPREQTITWAGTKMAPRPFSSKRGSGFPAVDMNQLQYATLGRPVIII 225  
 DB 558 LSKANLQKDT--NTGOTTETVLALILLER--TQTNVQVDFGLZLIFNCQNSFPF- 612  
 QY 226 RSTSSKEIVHTETVTVTP-SANSQENWSHLKILKMPQURQSLSQ--VQVPPM 281  
 DB 613 --ANNQKQYKQAFKCKPREVLSQKSGFSGVGLLANNPQRLGADGELHPFPF 670  
 QY 282 NQIMWAVYKQLLIGPITP-----KRLKAPPT-----ELKDLILSVTHKKER 329  
 DB 671 ADIDWELAKQKIPPPHVLVTSNFTPTTASTVYMKHQPMKATPL--SPA 727  
 QY 330 IAKKEMKCKKQSGCCLQHLGLGVQK-----EPITP-----RKXSDYRK 373  
 DB 728 MQNFAFQFVDS--ALDQVNNKATLQNSVFMKSPFPGNLPFPDVEDVDGDD 784  
 QY 374 RQNALAEVYKQVYVQVQVQND 394  
 DB 785 RDINGQFQKNNNSQND 805  
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 DB 994  
 DB 995  
 DB 996  
 DB 997  
 DB 998  
 DB 999  
 DB 1000

QY 131 VVALYQVONQRIHDKMKNPILIDHGHVITDNKLAIPREQTITWAGTKPVWPE 190  
 DB 160 VLAETLHSLDLYLQFENLISLSTGYKLTQFGAKYKRT--WLTGTFETLPE 217  
 QY 191 MFSERKAGYSAVDNNSGYTAYELLAGRPHVHSTSSKEIWHTEVTV--VTPS 247  
 DB 218 IILSK--GYTAVWMAQGLIYSMAQYFPF-----ADQPIQITKIVSGKAYFP 268  
 QY 248 AMSQENWSHLKILKMPQURQSLSQ--SVQVPPYTHNDINWAVQKLIQFIDNG 303  
 DB 269 HFSHMLKDLANLQVLTATQNLQVWALVIAKMHAFQSTDAIYQATITPFPF-SRG 327  
 QY 304 RLN 306  
 DB 328 RSN 330  
 Search completed: May 26, 2004, 20:20:20  
 Job time : 21 secs





RESULT 3  
 ID AE4261  
 ID AE4261 standard; protein; 396 AA.  
 XX  
 XX AE4261;  
 DT 07-MAR-2002 (first entry)  
 DT  
 DT Novel human protein (NHP) Kinase #4.  
 RW Novel human protein; NHP; gene therapy; diagnosis; drug screening;  
 RW medical disorder; mental; biological; physiological, chemotherapeutic;  
 XX Homo sapiens.  
 XX  
 XX W0200181557-A2.  
 XX  
 XX 01-MOV-2001.  
 XX 24-APR-2001; 2001MO-US011149.  
 XX 15-MAR-2000; 2000US-019499P.  
 XX 01-MAR-2000; 2000US-020427P.  
 XX (LEXI-) LEXICON GENETICS INC.  
 XX  
 XX Hu Y, Nepomichy B, Mang X, Donohoe G, Scoville J, Walke DM;  
 XX NHP1; 2002-03442/04.  
 XX 18-SEP-2000; A023679.  
 XX New nucleic acid molecules encoding new human proteins useful in  
 XX diagnosis, drug screening, gene therapy, and treatment of  
 XX physiological disorders, and cosmetic or nutritional applications.  
 XX  
 XX Class 7; Page 43; 44pp; English.  
 XX The invention relates to novel human protein (NHP) kinases and their  
 XX corresponding cDNA molecules. NHP kinases and its DNA are useful as  
 XX reagents in assays for screening compounds that can be used as  
 XX biological and medical disorders, and also as chemotherapeutic agents,  
 XX useful in the treatment of breast cancer and prostate cancer. NHP DNA is  
 XX useful for diagnosis, drug screening, gene therapy, and treatment of  
 XX nutritional applications. NHP DNA is also useful for the identification  
 XX of coding sequence and the mapping of a unique gene to a particular  
 XX chromosome. NHP DNA is also useful in gene therapy. The present  
 XX invention also includes a library and assessing gene expression patterns, and also for  
 XX the detection of mutant NHPs or inappropriately expressed NHPs for  
 XX disease diagnosis. NHP DNA is also useful in gene therapy. The present  
 XX invention also includes a library and assessing gene expression patterns, and also for  
 XX dependent kinases related to the invention  
 XX  
 XX Sequence 396 AA;  
 Query Match 95.8%; Score 2060; DB 5; Length 396;  
 BAST Local Similarity 99.2%; Fred No. 36-187;  
 Matches 309; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
 QY 1 MGNSTSGPVEDENRPFHLLAIGSGFVCIQNDTKYNTMYNKQY 60  
 DB 1 MGNSTSGPVEDENRPFHLLAIGSGFVCIQNDTKYNTMYNKQY 60  
 QY 61 ENNVNVPFELQGFPHPLNLTSPHRTNTHLGLGGLNQLQVHSE 120  
 DB 61 ENNVNVPFELQGFPHPLNLTSPHRTNTHLGLGGLNQLQVHSE 120  
 QY 61 ENNVNVPFELQGFPHPLNLTSPHRTNTHLGLGGLNQLQVHSE 180  
 DB 121 ETVKLFCELVADLQNGRIHUEKAFEDNLIHGHVHIDFNIAKLPFTQITM 180  
 QY 181 ACTATPATEENSGSGYSPVWNSGDTATTELLRPPHPSSTSSKEI 240  
 DB 181 ACTATPATEENSGSGYSPVWNSGDTATTELLRPPHPSSTSSKEI 240  
 QY 241 TTTTTPANSQWLSKLEENPDQPSLSPQNSPFIANDVAPQRLNPIP 300  
 DB 241 TTTTTPANSQWLSKLEENPDQPSLSPQNSPFIANDVAPQRLNPIP 300  
 QY 301 NGRILNADPTELEMLSEKPLHKKKKKKKKKKKKKKKKKKKKKKKK 360  
 DB 301 NGRILNADPTELEMLSEKPLHKKKKKKKKKKKKKKKKKKKKKKKK 360  
 QY 361 INNNVYNDGPNFALSTGTPSVNQ 392  
 DB 361 INNNVYNDGPNFALSTGTPSVNQ 392  
 RESULT 4  
 ID AE421725 standard; protein; 396 AA.  
 XX  
 XX AE421725;  
 DT 16-JUN-2002 (first entry)  
 DT  
 DT Human PEKIN-20 protein.  
 RW Human; kinase; enzyme; PEKIN-20 protein; immune system disorder; anemia;  
 RW asthma; neurological disorder; epilepsy; Charcot-Marie-Tooth disease;  
 RW AIDS; seizures; cell proliferative disorder; cancer; adenocarcinoma;  
 RW leukemias; lymphoma; anemia; myeloid leukemia; congenital disorder;  
 RW Down's syndrome; gene therapy; protein therapy; cytostatic.  
 XX Homo sapiens.  
 XX  
 XX Key Location/Qualifiers  
 XX Domain 13..300  
 XX Domain /note="Protein kinase domain"  
 XX Domain 23..281  
 XX Domain /note="Protein kinase domain"  
 XX Domain 25..248  
 XX Domain /note="Protein kinase domain"  
 XX W0200216557-A2.  
 XX 07-MAR-2002.  
 XX 31-AUG-2001; 2001MO-US027219.  
 XX 31-MAR-2000; 2000US-023877P.  
 XX 08-SEP-2000; 2000US-0231357P.  
 XX 14-SEP-2000; 2000US-023654P.  
 XX 22-SEP-2000; 2000US-023449P.  
 XX 06-OCT-2000; 2000US-023838P.  
 XX 13-OCT-2000; 2000US-0240542P.  
 XX (INCY-) INCYTE GENOMICS INC.  
 XX  
 XX Berdman O, Nguyen DB, Patel S, Hatalia AJN, Yeo WG, Goshal AR,  
 XX Thompson M, Elliott JS, Lu Y, Ison CH, Au-Yang J, Tang YT,  
 XX Azimail Y, Burrill JS, Marcus GA, Zingari XA, Lu DM, Lal PG,  
 XX Runkawa J, Warren BA, Kearney L, Pollock JL, Thangavelu K,  
 XX Burford W,  
 XX





genotype that while not necessarily causing a disease, is nevertheless

```
FT      /label= N_glycosylation_site
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13

XX KW KW XX OS XX FH FT FT FT FT FT FT FT FT FT FT FT FT FT FT

CC affects the treatment modality, as antisense constructs to control human  
CC expression in cells, tissues and organisms, for gene therapy  
CC in patients containing cells that are aberrant in human kinase gene  
CC expression, and to produce transgenic animals. The present sequence  
CC subfamily is a human kinase related to the serine/threonine protein kinase  
XX subfamily

XX Sequence 396 AA:  
CC Query Match 95.24; Score 2047; DB 6; Length 396;  
CC Best Local Similarity 98.74; Pred. No. 6.2e-166;  
CC Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Db 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180

Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392

XX Query Match 95.24; Score 2047; DB 6; Length 396;  
XX Best Local Similarity 98.74; Pred. No. 6.2e-166;  
XX Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Db 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180

Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392

XX Query Match 95.24; Score 2047; DB 6; Length 396;  
XX Best Local Similarity 98.74; Pred. No. 6.2e-166;  
XX Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Db 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
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Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
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PT mediated by kinase pathway (e.g. cancers, inflammations, arteriosclerosis  
PT or poriasis), or for development of human therapeutics and diagnostic  
PT compositions.

XX Claim 1; Fig 2A, 195pp; English.

CC The invention relates to a new isolated human kinase peptide. The human  
CC kinase peptide is useful for the treatment of human diseases, and is useful  
CC of human therapeutics and diagnostic compositions. The peptides are  
CC useful for treating disorders (e.g. cancers, inflammations,  
CC arteriosclerosis or poriasis) characterized by an absence of  
CC kinase activity. The peptides are particularly useful as models for developing human  
CC therapeutic targets, identifying therapeutic proteins, or serving as  
CC ligands for the development of human therapeutics and diagnostic  
CC compositions. The peptides are also useful for raising antibodies or eliciting an immune  
CC response, as a reagent (including the labelled reagent) in assays  
CC for kinase activity in cells and tissues that express the kinase. The  
CC peptides are also useful for identifying kinase inhibitors, and for  
CC binding partner or ligand in biological fluids, or as markers for  
CC tissues in which the corresponding protein is preferentially expressed.  
CC The agents identified are useful for treating a subject with a disorder  
CC characterized by an absence of kinase activity. The present sequence represents the amino  
CC acid sequence of a human kinase

XX Sequence 396 AA:

XX Query Match 95.24; Score 2047; DB 6; Length 396;  
XX Best Local Similarity 98.74; Pred. No. 6.2e-166;  
XX Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Db 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
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Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180

Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 181 AKTKVWAFNPSKSGKGFSAFVWLSGLTATGLRPPVHTSTSKVHTRET 240  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 241 TVVTFSSAQVSLVLLKLENTFOFSLDFPQVDFPMDVMDVAVFQVHT 300  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 301 NGRKLVNDPTFLFELNLSKFLHKKKGLAKESDMKALDKSSQTLQELHLSVQSEFT 360  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392  
Oy 361 INPKKKNDSFNSQNLALSKTKPQDRHQ 392

XX Query Match 95.24; Score 2047; DB 6; Length 396;  
XX Best Local Similarity 98.74; Pred. No. 6.2e-166;  
XX Matches 387; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Db 1 MANTSKKFPVDRNDFVDFHLLAARGSGFKVCIYQNTVTKMVAKCKQCY 60  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 61 ERNEVNFVFEIQGLGHPFLVNLVSPDRDMVYVLGGLGLYLQVHFKE 120  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180  
Oy 121 ETVKLCFLVWALDYQNRITTHRMKPNTLLDSGHVHTDPAAPPTQTTH 180

reproductive disorder.  
 Homo sapiens.  
 XX AC W0200138503-A2.  
 XX AC 31-MAY-2001.  
 XX XX 22-NOV-2000; 2000NC-U5012085.  
 XX XX 24-NOV-1999; 95US-01674822.  
 XX XX (SUGB-) SUGEN INC.  
 XX PI Plowman GD, Whyte D, Manning G, Sudarsanam S, Martinez R;  
 XX PI Flanagan P, Clary D;  
 XX DB SUGB; 2001-343950/36.  
 XX DB 11 FEB; N6604.  
 XX XX Cysteine acids encoding human kinase polypeptides, useful for preventing  
 XX XX diagnosing and/or treating e.g. cancer, immune, cardiovascular and  
 XX XX neurogen-associated diseases, and microbial infections.  
 XX XX Claim 7; Fig 2; 433pp; English.  
 XX XX AD003501-AN003557 represent novel human protein kinases #1-57. The novel  
 XX XX protein kinase family is encoded by the human genome. The polynucleotides  
 XX XX encoding human kinases (PKX and STX) families. The polynucleotides  
 XX XX encoding protein kinases and the polypeptides may be used in the  
 XX XX prevention, diagnosis and treatment of diseases associated with the  
 XX XX cancer, (especially cancers of hematopoietic origin), cardiovascular  
 XX XX disease (e.g. atherosclerosis), metabolic disorders (e.g. diabetes),  
 XX XX immune related diseases (e.g. rheumatoid arthritis), infectious  
 XX XX diseases (e.g. HIV), inflammatory disorders (e.g. asthma), infectious  
 XX XX Parkinson's disease), reproductive disorders (e.g. infertility), and  
 XX XX Additionally, polynucleotides encoding the protein kinases may be used for  
 XX XX diagnosis and/or treatment of diseases. The protein kinases  
 XX XX polypeptides may be used as antigens in the production of antibodies  
 XX XX against the protein kinases and in assays to identify modulators of  
 XX XX protein kinase expression and activity  
 XX XX Sequence 327 A4;  
 XX XX 70-48; Score 1513.5; DR 4; Length 327;  
 XX XX Query Match 87.64; Pred. No. 2.9e-135;  
 XX XX Mismatches 297; Conservative 5; Mismatches 18; Indels 19; Gaps 4;  
 XX QY 1 MGNATSRKPFVDEINVFHFLARLGGKGFQVCIYQNDKNTKMYNKYQCY 60  
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 XX QY 61 ENEVNFVFELQVQGLSHFPLVNTSPQSEINPVVLLGGSLALQVNHKRE 120  
 XX DB 61 ENEVNFVFELQVQGLSHFPLVNTSPQSEINPVVLLGGSLALQVNHKRE 120  
 XX QY 121 EYVFLKFLCWALYLDQVLIIRHMDPNDILDRGHVHTPIAMAPREYQITM 180  
 XX DB 121 EYVFLKFLCWALYLDQVLIIRHMDPNDILDRGHVHTPIAMAPREYQITM 180  
 XX QY 181 AKTQYVAFPMISRRGAGYFVNDVGLVYAYLAGRPYHPIRSTSSKELVHTET 240  
 XX DB 181 AKTQYVAFPMISRRGAGYFVNDVGLVYAYLAGRPYHPIRSTSSKELVHTET 240  
 XX QY 241 TVVTFSSAMQSVSLKLKLE-----ENEDQVPSGLQVQ---NFTYFMDLNDKAVFQRE 293  
 XX DB 241 TVVTFSSAMQSVSLKLKLE-----ENEDQVPSGLQVQ---NFTYFMDLNDKAVFQRE 293  
 XX QY 294 LIRGTFPINKGLNDPFFELSENLSKFLKXKKDLAK 332  
 XX DB 296 -----QGRGLNDPFFELSENLSKFLKXKKDLAK 337

RESULT 9  
 AB022177  
 AD AB022177; standard; protein; 404 AA.  
 AC AC AB022177;  
 XX XX 01-SEP-2003 (first entry)  
 XX DE Mouse serine/threonine protein kinase #1.  
 XX XX Mouse, enzyme; kinase; gene therapy; cancer; inflammation; psoriasis;  
 XX XX arteriosclerosis.  
 XX XX Mus musculus.  
 XX XX US2003027307-A1.  
 XX XX 06-FEB-2003.  
 XX XX 26-SEP-2002; 2002US-00254869.  
 XX XX 09-MAR-2001; 2001US-00801876.  
 XX XX (APPL-) APPLERA CORP.  
 XX PA Ye J, Yan C, Di Francesco V, Beasley EM;  
 XX PT New isolated human protein kinases, useful for treating disorders  
 XX PT mediated by kinase pathway (e.g. cancer, inflammation, arteriosclerosis  
 XX PT or psoriasis), or for development of human therapeutics and diagnostic  
 XX PT compositions.  
 XX XX Disclaimers; Fig 2B; 185pp; English.  
 XX XX The invention relates to a new isolated human kinase peptide. The human  
 XX XX kinase peptide and nucleic acid molecules are useful in the development  
 XX XX of human therapeutics and diagnostic compositions. The peptides are  
 XX XX arteriosclerosis or psoriasis) characterized by an absence of,  
 XX XX inappropriate, or unwanted expression of the kinase protein. These  
 XX XX molecules are particularly useful for identifying therapeutic proteins or serving as  
 XX XX targets for the development of human therapeutic agents that modulate  
 XX XX kinase activity in cells and tissues that express the kinase. The  
 XX XX peptides are used as a reagent (including the labelled reagent) in assays  
 XX XX designed to quantitatively determine levels of the protein (or its  
 XX XX binding partner or ligand) in biological fluids; and as an orally expressed  
 XX XX agent. The agents identified are useful for treating a subject with a disorder  
 XX XX mediated by kinase pathway. The present sequence represents the amino  
 XX XX acid sequence of the mouse serine/threonine protein kinase #1.  
 XX XX Sequence 404 A4;  
 XX XX Query Match 65.54; Score 1439.5; DR 6; Length 404;  
 XX XX Similarity 68.14; Pred. No. 3.2e-127;  
 XX XX Mismatches 280; Conservative 43; Mismatches 71; Indels 17; Gaps 5;  
 XX QY 1 MGNATSRKPFVDEINVFHFLARLGGKGFQVCIYQNDKNTKMYNKYQCY 60  
 XX DB 1 MGNATSRKPFVDEINVFHFLARLGGKGFQVCIYQNDKNTKMYNKYQCY 60  
 XX QY 61 ENEVNFVFELQVQGLSHFPLVNTSPQSEINPVVLLGGSLALQVNHKRE 119  
 XX DB 61 ENEVNFVFELQVQGLSHFPLVNTSPQSEINPVVLLGGSLALQVNHKRE 120  
 XX QY 120 EYVFLKFLCWALYLDQVLIIRHMDPNDILDRGHVHTPIAMAPREYQITM 179  
 XX DB 120 EYVFLKFLCWALYLDQVLIIRHMDPNDILDRGHVHTPIAMAPREYQITM 179





RESULT 13  
 AACU7710  
 ID AACU7710 standard; protein; 414 AA.  
 AC AACU7710;  
 XX  
 XX 20-AUG-2002 (first entry)  
 XX  
 XX Human serine-threonine protein kinase #2.  
 XX  
 XX Human, serine-threonine, protein kinase, cancer, diabetes, obesity;  
 XX central nervous system disorder; inflammation; gene therapy; COPD;  
 XX neuroprotective; antiparkinsonian; cerebroprotective; cytostatic;  
 XX antidiabetic; antiatherogenic; antihypertensive; antidepressant; anorectic;  
 XX immunomodulatory; immunomodulator; chronic obstructive pulmonary disease;  
 XX enzyme.  
 XX  
 XX Homo sapiens.  
 XX  
 XX W0200213056-A2.  
 XX  
 XX 25-APR-2002.  
 XX  
 XX 15-OCT-2001; 2001US-06411892.  
 XX  
 XX 16-OCT-2001; 2001US-0240097P.  
 XX  
 XX 30-JUN-2001; 2001US-0318056P.  
 XX  
 XX (FASB ) BAYER AG.  
 XX  
 XX Koehler RH;  
 XX  
 XX WPI, 2002-43553/46.  
 XX  
 XX New human serine-threonine protein kinase and encoding polynucleotides,  
 XX useful for diagnosing, treating and preventing central nervous system  
 XX disorders (e.g. stroke), diabetes, or cancers (e.g. leukemia).  
 XX  
 XX Disclosure; Fig 8; 135pp; English.  
 XX  
 XX The present invention provides the protein and coding sequences of a  
 XX human serine-threonine protein kinase. The sequences can be used in the  
 XX diagnosis, treatment and prevention of cancers (e.g. leukemia, lymphoma  
 XX or melanoma), CNS disorders (e.g. Parkinson's disease, stroke,  
 XX multiple sclerosis, Huntington's disease, Alzheimer's disease, obesity,  
 XX anorexia, or cachexia), allergies, anaphylaxis, asthma, inflammation and  
 XX chronic obstructive pulmonary disease (COPD). The present sequence is a  
 XX human serine-threonine protein kinase  
 XX  
 XX Sequence 414 AA;  
 XX  
 XX Heavy Match 62.28, Score 1421.5, Db 5, Length 414;  
 XX Near Local Similarity 72.31, Pred. No. 1.5e-126;  
 XX Matches 269; Conservative 40; Mismatches 60; Indels 3; Gaps 2;  
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 XX 1 MGNVSRKPPVDFNVEVDFQILALRGKSGKCTVQGGTQNTAMVQWQKCY 60  
 XX  
 XX 61 EKNVVFPEIQVQGLSHFFVNLVWSPQSDPMPVLLGGLQVHLQVQVHFE 120  
 XX  
 XX 121 ETVKALCTVALQDYLQTHMDPNTLDEHGHVHTQFNIAKLPRETVITM 180  
 XX  
 XX 121 GVALYLCALAEVQLQVTHRDVFNILDEHGHVHTQFNIAKLPRETVITM 180  
 XX  
 XX 181 AKTVYVAWETS-SRPGKGFVADWGLQVATLGRPHRPHSSSKNIWTF 238  
 XX  
 XX 181 AKTVYVAWETS-SRPGKGFVADWGLQVATLGRPHRPHSSSKNIWTF 238  
 XX  
 XX 239 ETTVTVTSAGSQVSLKLLKLEKRPQSFQSDVQVNFYDNDVAVQKLLPGF 298

Db 241 KVERWYSSWCKGQVALLKLLKLPDSVSLRDIQVYLDMKMDVFKALMGP 300  
 Qy 299 FVNGKAGVQFELHLEKATKHKKKLAK KVNKKKQSSQCTQLLQKLVQK 357  
 Db 301 VVNGKAGVQFELHLEKATKHKKKLAK KVNKKKQSSQCTQLLQKLVQK 360  
 Qy 358 EFTTFPKVKN 369  
 Db 361 EFTTFPKVKN 372  
 XX  
 XX RESULT 14  
 XX ABB58617  
 XX ABB58617 standard; protein; 414 AA.  
 XX  
 XX AC ABB58617;  
 XX  
 XX 09-JUN-2003 (first entry)  
 XX  
 XX Human cancer related protein SEQ ID NO:274.  
 XX  
 XX Human; cancer; diagnosis; screening; modulator; leukemia, ischemia;  
 XX heart disease; atherosclerosis; endometrios.  
 XX  
 XX Homo sapiens.  
 XX  
 XX W02003025138-A2.  
 XX  
 XX 27-MAR-2003.  
 XX  
 XX 17-SEP-2002; 2002WO-08029560.  
 XX  
 XX 17-SEP-2001; 2001US-0323469P.  
 XX  
 XX 20-SEP-2001; 2001US-0323897P.  
 XX  
 XX 13-NOV-2001; 2001US-0350666P.  
 XX  
 XX 08-FEB-2002; 2002US-035237P.  
 XX  
 XX 12-APR-2002; 2002US-0372246P.  
 XX  
 XX (EUSP-) ROS BIOTECHNOLOGY INC.  
 XX  
 XX Afar D, Aziz N, Gish KC, Hevesi PA, Mack DR, Wilson KE;  
 XX Zlotnik A;  
 XX  
 XX WPI; 2003-354600/33.  
 XX  
 XX N-PS08; ACC72164.  
 XX  
 XX New genes that are up-regulated or down-regulated in cancers, useful as  
 XX markers for diagnosing e.g. cancer, ischemia or heart diseases, or as  
 XX therapeutic targets for screening drugs for treating these diseases.  
 XX  
 XX Claim 12, Page 748; 767pp; English.  
 XX  
 XX The present invention describes an isolated nucleic acid molecule, which  
 XX encodes a protein that is up-regulated or down-regulated in cancer, or  
 XX regulated in specific cancers (e.g. about 103 genes up-regulated in  
 XX acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer  
 XX related gene nucleotide sequences which encode the proteins given in  
 XX the accompanying table. The present invention provides a method for the  
 XX absence of a pathological cell in a patient; (2) an expression vector  
 XX comprising a nucleic acid molecule described above; (3) a host cell  
 XX comprising the vector; (4) an antibody that specifically binds the polypeptide  
 XX of (4); (5) a method for diagnosing a cancer, ischemia or heart disease or  
 XX cancer patient by administering to the patient the antibody above; and (7) a  
 XX cancer therapeutic agent. In particular, the nucleic acid is useful for  
 XX diagnosing a pathology, e.g. cancer of the bone marrow,  
 XX bladder, brain, breast, carvix, colon/rectum, kidney, lung, ovary,  
 XX prostate, stomach, testis, thyroid, uterus, or various other diseases,  
 XX atherosclerosis and endometrios. The nucleic acid is also useful in  
 XX drug screening, particularly for identifying agents for treating these















XX WO00018557-A2. /product="human PKIN-20 protein"

XX 07-MAR-2002.

XX 31-AUG-2001, 2001WO-08027215.

XX 31-AUG-2000, 2000US-0229873P.

XX 08-SEP-2000, 2000US-0231357P.

XX 14-SEP-2000, 2000US-0232654P.

XX 29-SEP-2000, 2000US-0234595P.

XX 06-OCT-2000, 2000US-0238389P.

XX 13-OCT-2000, 2000US-0240542P.

XX (INVENTOR) INCYTE GENOMICS INC.

XX (INVENTOR) Nguyen BN, Malia WK, Hafeez AM, Yoo MG, Gandhi AP, Gharunjan S, Bligg L, Patterson C, Yue H, Baughn JR, Tribouley ON, Thornton M, Elliott LS, Lu Y, Ison CH, Au-Yang J, Tang YJ, Asanval V, Barrill JD, Marcus GA, Zingher KB, Lu DMG, Lai PG, Burford N, Warren BL, Kearney JL, Pollock JL, Thangavelu R, PCT/US00/010000, 2000US-0238389P, 2001WO-08027215, 2002US-0239749/36.

XX PFS08; Am1425.

XX New human kinases, useful for diagnosing, treating or preventing immune system associated diseases, methods of identifying and isolating such proteins, and cell proliferative disorders (e.g., cancers such as leukemia or lymphoma).

XX Claim 99, Page 214, 218pp; English.

XX The present invention relates to human kinases (PKIN) and polynucleotides encoding such proteins. PKIN sequences of the invention are useful for diagnosing, treating or preventing immune system associated diseases, methods of identifying and isolating such proteins, and cell proliferative disorders (e.g., cancers such as leukemia or lymphoma).

XX expression of PKIN, particularly immune system disorders (e.g., acquired immune deficiency syndrome (AIDS), thymic hypoplasia, Crohn's disease, ankylosing spondylitis, rheumatoid arthritis, Sjogren's syndrome, and other autoimmune diseases), neurodegenerative disorders (e.g., Alzheimer's disease, Huntington's disease, and other neurodegenerative diseases), cell proliferative disorders (e.g., cancers such as adenocarcinoma, leukemia, lymphoma, melanoma, myeloma, sarcoma), and developmental disorders (e.g., Down's syndrome). They are also used in the treatment of immune system disorders.

XX human PKIN-20 protein.

XX Sequence 1594 BP; 441 A; 386 G; 372 T; 0 U; 0 Other;

XX 95.24; Score 1165.4; DB 6; Length 1594;

XX Local Similarity 95.18; Pred. No. 0;

XX Conservative 0; Mismatches 11; Indels 0; Gaps 0;

XX 1 ATGGGACCAACATCTCAGAAACACACAGCTGTTTATGAGATCAAGATGATGCTT 60

XX 404 ATGGGACCAACATCTCAGAAACACACAGCTGTTTATGAGATCAAGATGATGCTT 463

XX 61 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 120

XX 464 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 523

XX 121 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 180

XX 524 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 583

XX 181 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 240

XX 584 GACCACTTGAATTTTGGAGCAATGGGAGAGGAGTGTGGAGAGTGTGATGATG 643

XX 241 CTTTCTCTGATTTTGTGATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 300

XX 644 CTTTCTCTGATTTTGTGATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 703

QY 301 GACCT 360

DB 704 GACCT 763

QY 361 GACCT 420

DB 764 GACCT 823

QY 421 GACCT 480

DB 824 GACCT 883

QY 481 GACCT 540

DB 884 GACCT 943

QY 541 GACCT 600

DB 944 GACCT 1003

QY 601 GACCT 660

DB 1004 GACCT 1063

QY 661 GACCT 720

DB 1064 GACCT 1123

QY 721 GACCT 780

DB 1124 GACCT 1183

QY 781 GACCT 840

DB 1184 GACCT 1243

QY 841 GACCT 900

DB 1244 GACCT 1303

QY 901 GACCT 960

DB 1304 GACCT 1363

QY 961 GACCT 1020

DB 1364 GACCT 1423

QY 1021 GACCT 1080

DB 1424 GACCT 1483

QY 1081 GACCT 1140

DB 1484 GACCT 1543

QY 1141 GACCT 1183

DB 1544 GACCT 1586

RESULT 6

XX AA170764

XX AA170764 standard; cDNA; 1281 BP.

XX AC AA170764;

XX DT 04-FEB-2002 (first entry)

XX Human 14911 protein kinase cDNA.

XX Protein kinase; human; signal transduction; lung cancer; colon cancer;

XX brain cancer; breast cancer; gene therapy; diagnosis; se.

XX

XX

XX

XX

XX

XX

XX

XX

XX

















[illegible]







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OW nucleic - nucleic search, using sw model

Run on: May 28, 2004, 03:26:42 ; Search time 4804 seconds  
11043.271 Million cell updates/sec

File: US-10-620-845-8  
Patent score: 1224  
Sequence: 1 atgggcgcacacattcag.....agactcgaagttcataa 1224

Scoring table: HMMSTRIP.NUC  
Gapop 10.0, Gapext 1.0

Sequences: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6340544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Waiting first 40 summaries

Data base:

1: GenBank.\*

2: gb.hsq.\*

3: gb.in.\*

4: gb.om.\*

5: gb.pat.\*

6: gb.ph.\*

7: gb.pl.\*

8: gb.pl.\*

9: gb.pl.\*

10: gb.ro.\*

11: gb.stg.\*

12: gb.stg.\*

13: gb.stg.\*

14: gb.vi.\*

15: em.ba.\*

16: em.hum.\*

17: em.hum.\*

18: em.hum.\*

19: em.mu.\*

20: em.mu.\*

21: em.or.\*

22: em.ov.\*

23: em.pat.\*

24: em.pat.\*

25: em.pl.\*

26: em.ro.\*

27: em.stg.\*

28: em.vi.\*

29: em.vi.\*

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31: em.btg.hum.\*

32: em.btg.other.\*

33: em.btg.mus.\*

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35: em.btg.plin.\*

36: em.btg.mus.\*

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38: em.stg.\*

39: em.stg.\*

40: em.btg.mus.\*

41: em.btg.other.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

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3	1224	100.0	1675	6 A393904 Sequence
4	1224	100.0	1675	6 A393904 Sequence
5	1165.4	95.2	1191	6 A393903 Sequence
6	1165.4	95.2	1191	6 A393903 Sequence
7	1165.4	95.2	1594	6 A393908 Sequence
8	1165.4	95.2	1594	6 A393908 Sequence
9	1165.4	95.2	1394	6 A393918 Sequence
10	1163.8	95.1	1281	6 A393904 Sequence
11	1160.6	94.8	1485	6 A393953 Sequence
12	1160.6	94.8	1485	6 A393953 Sequence
13	1032.2	84.3	2063	6 A393907 Sequence
14	1032.2	84.3	2063	6 A393907 Sequence
15	832.8	68.0	981	6 A393913 Sequence
16	773	53.2	4973	10 BC055002 Mus muscu
17	773	53.2	4973	10 BC055002 Mus muscu
18	661.54	71.1	6 A393901 Sequence	
19	661.54	71.1	6 A393901 Sequence	
20	660.53	70.9	6 A393900 Sequence	
21	660.53	70.9	6 A393900 Sequence	
22	588.4	45.6	3367	10 BC058412 Mus muscu
23	588.4	45.6	3367	10 BC058412 Mus muscu
24	588.4	45.6	3367	10 BC058412 Mus muscu
25	542.4	44.3	3224	6 A393906 Sequence
26	542.4	44.3	3224	6 A393906 Sequence
27	540.8	44.2	3246	9 BC038238 Homo sapi
28	519.6	42.5	3244	9 A393903 Sequence
29	519.6	42.5	3244	9 A393903 Sequence
30	519.6	42.5	3244	9 A393903 Sequence
31	497.6	40.7	2201	10 A393901 Sequence
32	484.8	39.6	1287	6 A393904 Sequence
33	484.8	39.6	1287	6 A393904 Sequence
34	484.8	39.6	1287	6 A393904 Sequence
35	483.2	39.5	1858	9 BC015792 Homo sapi
36	479.4	39.2	1857	9 BC015792 Homo sapi
37	479.4	39.2	1857	9 BC015792 Homo sapi
38	472.4	38.6	857	9 BC021666 Homo sapi
39	471.6	38.5	2028	9 BC045760 Homo sapi
40	465.2	37.7	1540	6 A393904 Sequence
41	465.2	37.7	1540	6 A393904 Sequence
42	461.4	37.7	1640	6 A393951 Sequence
43	460.6	37.6	2038	9 A393903 Sequence
44	448.6	36.7	1868	9 A393903 Sequence
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## ALIGNMENTS

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ACCESSION	A393902				
KEYWORDS	AR393902.1	GI:40121077			
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	1 (bases 1 to 1224)				
AUTHORS	Re.Y., Repomichy B., Mang X. and Donoho G.				
TITLE	Human kinase proteins and polynucleotides encoding the same				
FEATURES	Patent: Location/Qualifiers				

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                /mol_type="genomic DNA"

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Best Local Similarity 100.0%; Pred. No. 4-se-311;
Matches 1224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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ACCESSION  AF301183.1 GI:1793467
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens (human)
REFERENCE  1. Y. N. Womichy, B. Wang, X., Donoho, G., Soville, J. and
            Wake, J. P.
            Human kinase proteins and polynucleotides encoding the same
            Patent: WO 018157-A 8 01-NOV-2001;
            Lexicon Genetics, Inc. (08)
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ORIGIN
Query Match      100.0%; Score 1224; DB 6; Length 1224;
Best Local Similarity 100.0%; Pred. No. 4-se-311;
Matches 1224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 ATGGAGCAGCAACCTTCAGAGAAACCAACGAGCTTTATGAGAAATGAAGATGCACTTT 60
Db 1 ATGGAGCAGCAACCTTCAGAGAAACCAACGAGCTTTATGAGAAATGAAGATGCACTTT 60
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454  CAGAGAGATATACCAAGAGAGTACCAACCAATGAGATGAGATATGAAATGAGATG 513
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694  GACCACTTGAATTTGTGGACCAATGAGAAAGGAGCTTTGGGAGGCTTCGATATGA 753
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754  CCAATCTGATATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 813
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874  CCGGCGCAACGAGGTCATGCGCATGAGATGAGATGAGATGAGATGAGATGAGATG 933
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934  TCTCTCTGTTAAATTTGTGATATCTTCCAGATGAGAGAGAGAGATGATGATGATG 993
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VERSION
ORGANISM Homo sapiens (human)
SOURCE
ORGANISM
REFERENCE
Bukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS
Plovan, G.D., Myte, D., Manning, G.B., Sudarshan, S.S., Martinez, R.,
Plangin, P. and Clary, D.S.
JOURNAL
Patent: WO 0109301-A 4 31-MAY-2001.
FEATURES
Location/Qualifiers
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Similarity 100%; Mismatches 0; Mismatches 77; Indels 15; Gaps 1;
Matches 504; Conservative 0;
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